

# 104E-1A Series

SIP

## PRODUCT DESCRIPTIONS



The 104E-1A 1 Form A series is the smallest SIP reed relay with the highest contact rate in this package size. Magnetic shield is a standard feature in both the standard and built-in Diode versions of this product for demanding high-density requirements. This miniature SIP series is suitable for ATE, measurement equipment, and telecommunication applications which require high density and higher reliability standards.

- 10W Contact Rate / 100VDC Switching
- 10.16mm x 3.81mm Mounting Area
- Standard Magnetic Shield
- Built-in Diode Option



## SPECIFICATIONS

104E 1A Series		104E-1A□0D2		104E-1A□0N2		
Parameters	Units	1 Form A				Test Conditions
<b>Coil Specifications</b>						
Nominal Coil Voltage	VDC	5.0	12.0	5.0	12.0	
Coil Resistance	Ω	250	800	250	800	±10% @ 20°C
Operate Voltage	VDC Max	3.75	8.8	3.75	8.8	@ 20°C
Release Voltage	VDC Min	0.7	1.2	0.7	1.2	@ 20°C
<b>Contact Ratings</b>						
Switching Voltage	Volts	100				Max DC/Peak AC resistance
Switching Current	Amps	0.5				Max DC/Peak AC resistance
Carry Current	Amps	1.0				Max DC/Peak AC resistance(@ 30°C)
Contact Rating	Watts	10				Max DC/Peak AC resistance
Life Expectancy	x10 <sup>6</sup> Cycle	300				@ 1V 10mA
Contact Resistance	mΩ	200				Max initial @ operate voltage
Contact Resistance Stability	mΩ	5.0				Max initial @ operate voltage
<b>Relay Specifications</b>						
Insulation Resistance	Ω Min	10 <sup>12</sup>				Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength	VDC Min	250				Between contacts
	VDC Min	1500				Contacts to coil
Operate Time (Including Bounce)	msec Max	0.35				@ nominal coil voltage 100 Hz square wave
Release Time	msec Max	0.25				Diode suppression
<b>Measurement Reference Conditions</b>			<b>Environmental Ratings</b>			
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa			Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's			

### Ordering code:

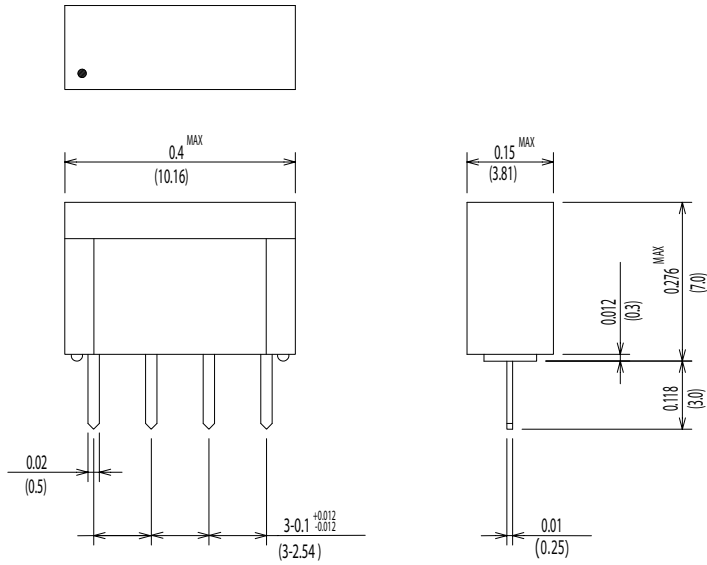
**104E-1A□0D2** (Diode)  
□=1 (5.0VDC), 2 (12.0VDC)

**104E-1A□0N2**  
□=1 (5.0VDC), 2 (12.0VDC)

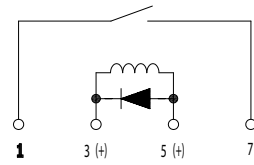
**Dimensions** All Dimensions are inches (mm)

**Schematic <Top View>**

**104E-1A□0D2/104E-1A□0N2**



**104E-1A□0D2**



**104E-1A□0N2**

